

1-12-1939

## Columbian, Vol. 5, No. 1

Consolidated Builders

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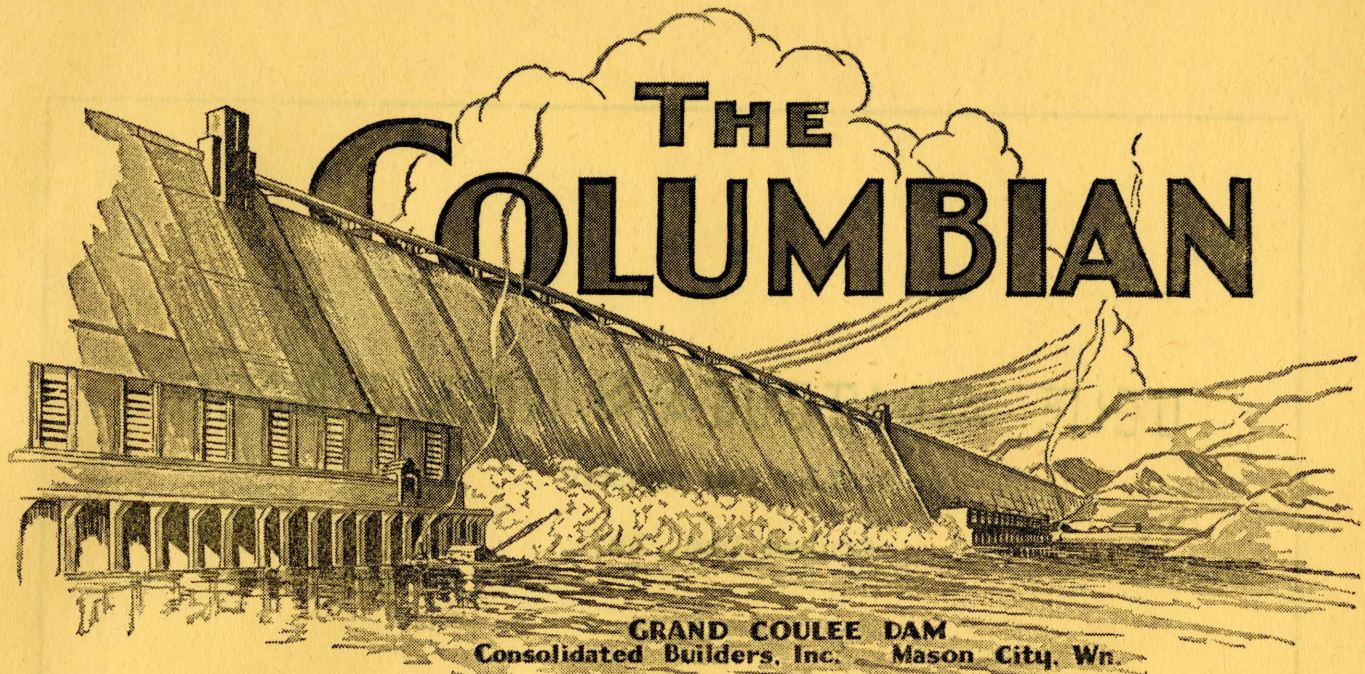
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Vol. 5 No. 1

January 12, 1939

## COULEE HISTORY NOT WILD MYTH —

Between natural ramparts over 800 feet in height, automobiles course down the winding Speedball highway to pass through one of the geological wonders of the world. That would not have been possible thousands of years ago, nor will it be several years hence when the highway is relocated. A more intimate acquaintance with the Grand coulee will explain. Acquaintance-ship will extend in time from the far past to the present and to the future, and in location will refer only to the 30 miles that make up the upper Grand coulee. This part of 50 miles of coulee will be used as the balancing reservoir for irrigating 1,200,000 acres of Columbia Basin lands.

Once the sea occupied all of central Washington, geologists believe. Later internal disruption of the earth sent volcanic floods over an estimated one-quarter million square miles, possibly the greatest volcanic disturbances ever known. At least seven floods are recorded along the green and red-splashed walls and columns of the coulee. Buried beneath the layers of lava have been found the remains of a great forest in which flourished trees of the fig family and others found only in the Orient today.

Out onto the plains built up with lava came ice from the north. According to

geological indications, the entire area was ice-laden except for a section from the head of the coulee to as far as Keller ferry. The ice sheet pushed up the river channel and edged out onto the present brink of the coulee. Tremendous glacial floods thus were forced down the coulee to begin their job of excavating 20 cubic miles that left the coulee much as it is today. At an elevation about that of Steamboat rock waters gouged out the soil and over a fold east of Coulee Junction. This fold, scene for an earth-fill dam in the Columbia Basin program, receives attention from diamond drills today. Here was probably one of the greatest waterfalls of all time, three miles wide, 800 feet high and with the power of a hundred Niagaras. The falls worked backward and backward until they reached the present Columbia river channel, nearly 30 miles away. Behind them they left Steamboat rock,  $2\frac{1}{2}$  miles long, one-half mile wide and 800 feet high, which separated twin falls as Goat island does the Niagara.

The ice melted, waters retreated, the Grand coulee was emptied of water until another ice age, minor in importance, advanced and then left behind Devil's lake and other low spots and an accumulation

(Continued on Page 5)



# THE AMERICAN RED CROSS

COULEE DAM BRANCH

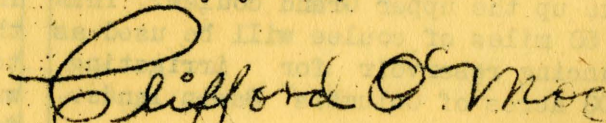
Coulee Dam, Wn.

To Residents of the Coulee Dam Area:

The American Red Cross organization takes this means of expressing to each one of you its sincere thanks and appreciation for your generous response and support of the recent Roll Call.

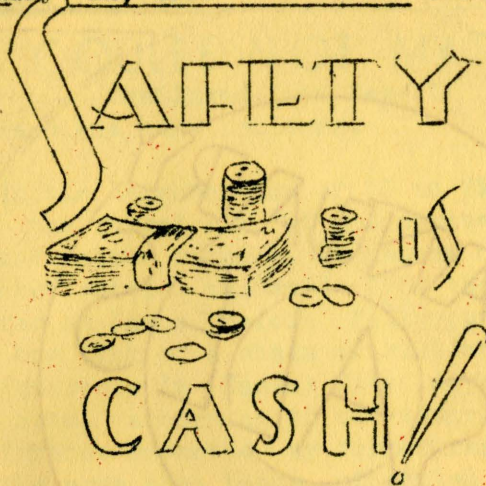
Because of your liberal contributions, the local Red Cross chapter will be able to offer more varied benefits and services to the community during the coming year, and to render efficient assistance to those beset by misfortune.

Sincerely yours,



CLIFFORD O. MOE, Chairman  
Coulee Dam Branch,  
The American Red Cross





In Oregon they're thinking about taxing single men because they are single-- but this is Washington--

\*\*But JOE KROLL and BONNIE BENNER have the June idea that will go into effect the first of February.

\*\*and when WENDELL GROVE comes back from Kansas he'll have to add the conjunction "and" for a joint address too.

\*\*and TOM CREACY and JANE STRONG murmured the vows Jan. 7 and BUD ALBRIGHT shouted his happiness.

\*\*but W. G. KAHL refused to wait until Jan. 7 before becoming eligible for the rolling pin brigade.

STUDENTS OF RED CROSS FIRST AID AT THEIR FIRST MEETING LAST NIGHT KNEW THAT A KNOWLEDGE OF FIRST AID WILL SAVE LIVES AND PREVENT MUCH DANGER FROM WOUNDS.

HENRY KRUSE is frank. He has never admitted he picked up a beautiful black eye either from skating or from running into a door knob.

Apparent to the world at large is the mellowness, sweetness, contentment, etc. of EARL COLE since he took up tatting.

R. W. REEVS wasn't happy, but he lost his check in the bank.

ED CARLSON claims it was a dirty deal, but he did prove himself a man. (Ask him for details; we won't give them to you.)

A report that echoed in is that the Midway island triumvirate headed by OLE STRANDBERG will return to the damsite not far from Jan. 26th.

The dirge that sounds so low (it would) is one by LUCILLE RIORDAN for a fish of gold that is no more.

BUCK TILLBURY has a Super-Super-Super-Speed gun. It cuts a rabbit in two, but the front legs travel for a mile before they realize the hind legs aren't coming along.

THE RIGHT TRACK IS HEADED "SAFETY PAYS"



by a "feebul" foreman  
O-----C

Got my income tax in early this year. What with the long lay-off last spring, I didn't owe them nothin.

\* \* \* \*

The Christmas party is swell and he politely thanks his hostess for the little gift with the simple assertion that with a bridge playin' wife he's allus grateful for a clean hankerchief.

\* \* \* \*

The toorist feller asts do we allus drink our beer from quart bottles, and we tell him nearly always, they're so much handier than them half-gallon jugs.

\* \* \* \*

Any guy may have other things to do besides prevent accidents, but he won't be able to unless he prevents accidents.

\* \* \* \*

Sure am glad the fruit cannin' season is over. Nothin' makes me madder'n to go out in the kitchen in my sock feet and have 'em stick to the linoleum.

\* \* \* \*

Hank's only comment on the temperance lecture wuz that the slide showin' the interior of a IT's stummick was somethin' for them modernistic painters to shoot at.

\* \* \* \*

I tried the usual old line about his glasses bein' a protection, but he obligingly replies that if I want to try my luck, he can easily take 'em off.

\* \* \* \*

So Mamma sez, "Livin' in Mason City with no fires to build, there's no reason for you not gittin' up first."

\* \* \* \*

It don't pay to take chances. The hospitals and cemetaries are full of men who did.

\* \* \* \*

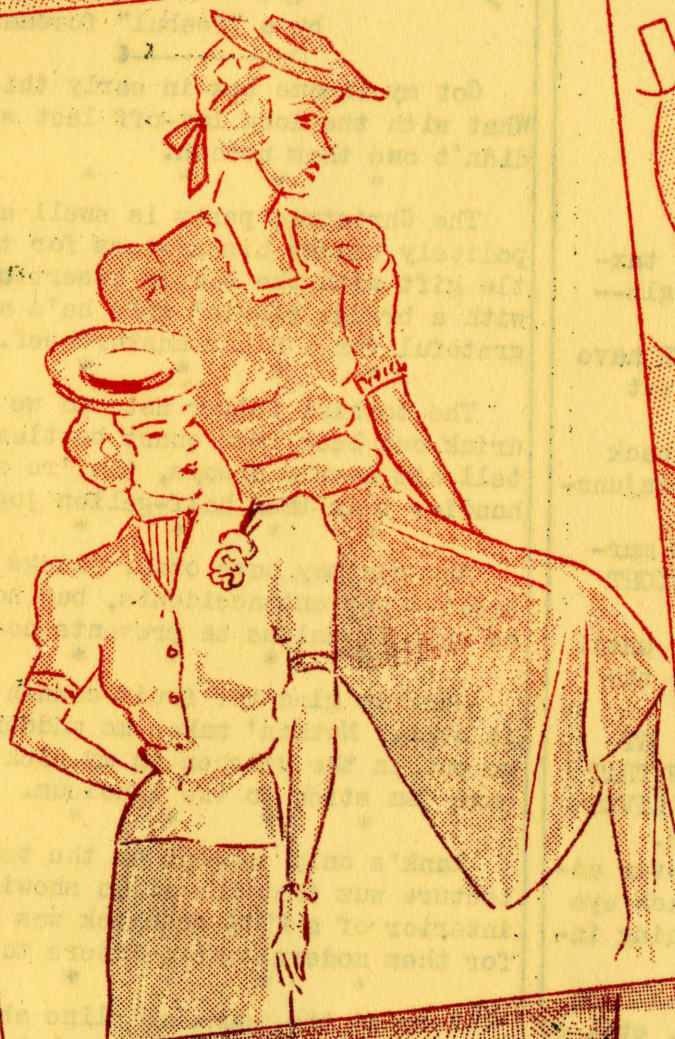
He sez his hammer has stood twenty-nine years of hard use, and in all that time it's only had three new handles and two new heads.

\* \* \* \*

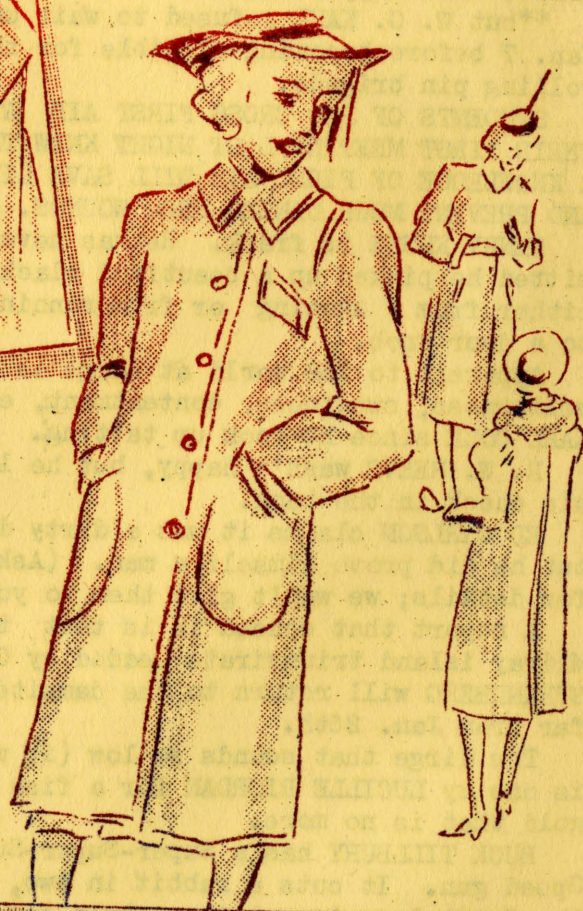
Mason City houses have their drawbacks. Haint much fun spittin' on 'lectric heaters



JANUARY  
SALES



DRESSES  
25% OFF  
COATS 20%  
OFF



MASON CITY STORES



## COULEE NOT MYTH

(Continued from Page 1)

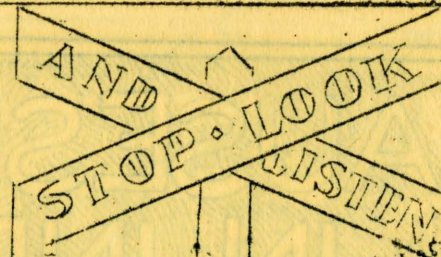
of sand and huge boulders.

In the neighborhood of 50 to 75 years ago the rugged rim of the coulee overlooked cattle ranches. Thousands of head of beef cattle wandered from the coulee as far as Pasco before fall roundups; and one link of a chain of rustlers with headquarters in Kansas City depredated the area, according to old-timers. It is further reported by former residents of the area that bands of stolen cattle once were herded down to the river to hide out before heading eastward; and throughout these years wandering Indians, with their war dances and sweat houses, were common sights. In time, ranchers turned to wheat raising in the coulee, but this in turn was pretty much squeezed out by 25 years ago because of too little moisture.

This same scene, which once nurtured one of the most gigantic of activities by nature and a losing battle by residents will again see a change. For at least the third time in its history the Grand coulee will have water coursing along it but this time as a more or less placid lake 27 miles long. By no stretch of the imagination can it be compared to waters of the past.

At a narrow point west of the Grand coulee ball park an earth-fill dam about 90 feet high and one-fourth mile long will be constructed and 27 miles away a second earth-fill dam, with a maximum height of 100 feet above the original ground surface and a length of two miles will become the west dam. Hemmed in between the dams will be the reservoir for irrigating--shallow and narrow. The lake will begin as the thread of a channel near the north side of the coulee and continue on down past Steamboat rock where it will widen out to occupy most of the lower end of the coulee bed. At Steamboat rock only a small stream will pass along the south side, a check of elevations below 1580 shows. However, the highway will have to be relocated toward the south rim of the canyon.

The lake resting in a bed up to five miles wide will have a maximum width of



two miles and will occupy over 21,000 acres and will contain 1,500,000 acre-feet, of which about 700,000 acre-feet can be used in the irrigation of Columbia Basin lands. This would mean a drawdown of about 25 feet in the surface of the lake during April before secondary or flood power would be used for pumping water from behind the dam into the Grand coulee reservoir.

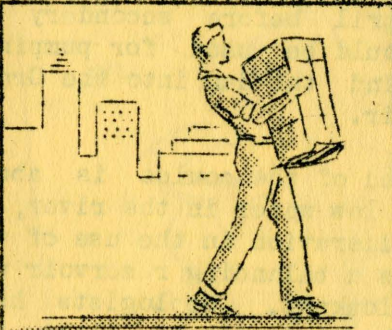
Since the bed of the coulee is about 600 feet above low water in the river, an important consideration in the use of the Grand coulee as a balancing reservoir was a question of leakage. Geologists have agreed that the most likely place for leaks would be the fold in the basalt at the opening of the coulee into the Hartline basin. Last June diamond drillers began work along the fold and by Jan. 1 had drilled 7100 feet of holes. (A further check will be the sinking of an 8x10-foot shaft 200 feet deep with a tunnel of 1000 feet into the fold) About a year and a half of drilling remains for the reservoir. This includes work at the east dam and along sides of the coulee.

It should not be taken that the Grand coulee is to be flooded within the next year or two. Present work in the coulee is preliminary to that which will be carried on only after completion of Grand Coulee dam across the Columbia river. Construction work in the coulee probably will accompany construction of the pump plant, not provided for in CBI's contract.

However, not far in the future the walls of the coulee--"receding" on hazy days, grim and chilling on cold and frosty days, rugged and majestic on sunlight days--will not become an excavator through use of its water. Instead it will contain the means for giving life to hundreds of farms for the feeding of thousands of people. How different from the destroyer of yesterday and the sleeper of today.

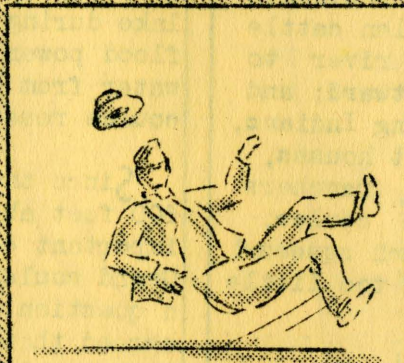


# CAUSES OF INJURY IN INDUSTRIAL ACCIDENTS



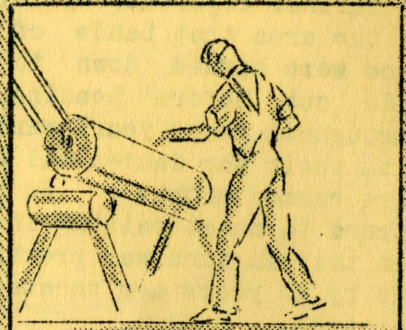
HANDLING  
OBJECTS

29% of the cases  
17% of the compensation



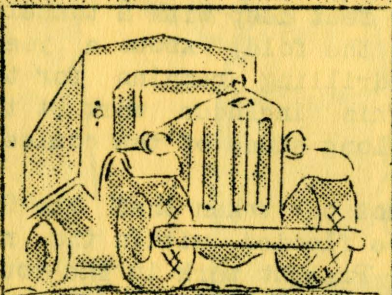
FALLS

22% of the cases  
29% of the compensation



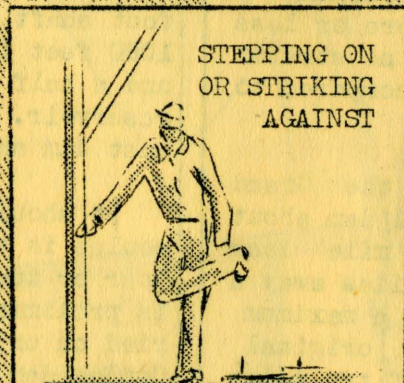
MACHINERY

12% of the cases  
14% of the compensation



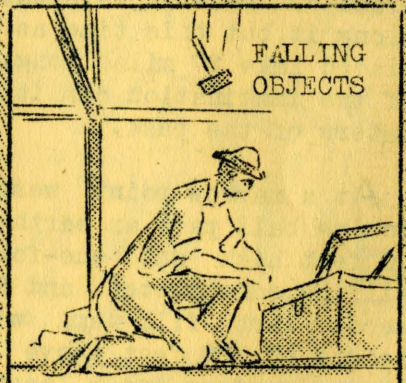
VEHICLES

9% of the cases  
16% of the compensation



STEPPING ON  
OR STRIKING  
AGAINST

5% of the cases  
2% of the compensation



FALLING  
OBJECTS

5% of the cases  
6% of the compensation

THESE PERCENTAGE FIGURES COULD BE DETERMINED BECAUSE  
THOUSANDS AND THOUSANDS OF MEN SUFFERED FROM ACCIDENTS  
THAT MIGHT HAVE BEEN PREVENTED.



## THE MAN IN THE CASE

\*\*\*"Did you ever see an accident chase a man down to get him? Did you ever see a machine, a box, a bolt, or a tool run after a man to lop off a finger or break a bone?" OF COURSE NOT.

In every instance the man went to the machine and in 99 cases out of 100 he pulled the stunt that hurt him-- or some other fellow. It's just as though, deliberately and with full intent, he went out of his way to cause an accident.

As you think of safety you recognize that we have all sorts of guards for machines but that these guards only cover up hazards; they do not remove them. You recognize that despite guards, safety standards for machines, tanks and boilers; despite numerous inspections and check-ups on ventilation, flooring, stairs as factors in accidents, despite signs, posters, notices and safety engineers; despite everything in the world to prevent accidents and produce safety, construction is a long way from being 100% safe.

This is so because the only thing in the world that breaks up a safety record is a man. All too often we check everything except that man. Let's give him more attention. -- Construction News

**BORN** at Mason City hospital--

Jan. 8, to Mr. and Mrs. Milton E. Hall of Belvedere, a daughter.

Jan. 2, to Mr. and Mrs. George D. Moore of Coulee Center, a daughter.

Dec. 30, to Mr. and Mrs. Ivan P. Eisele of Electric City, a daughter.

Dec. 29, to Mr. and Mrs. Harold O. Maudal of Osborne, a daughter.

Dec. 29, to Mr. and Mrs. Alfred O. Anderson of Electric City, a daughter.

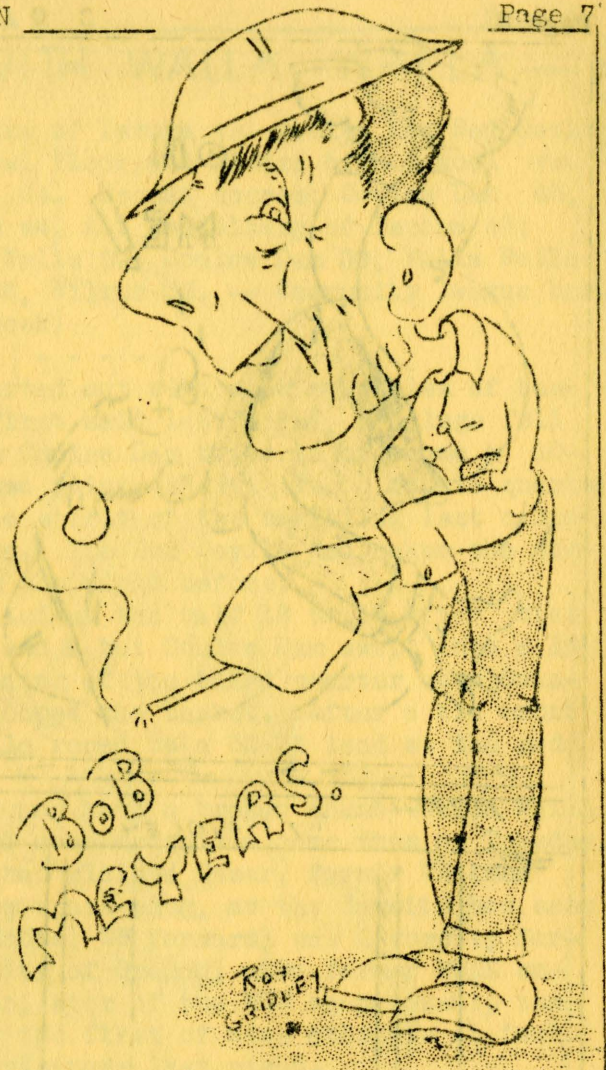
Dec. 28, to Mr. and Mrs. Roy C. Chase of Grand Coulee, a daughter.

Dec. 28, to Mr. and Mrs. Merl J. Wallis of Grand Coulee, a daughter.

**MEAL SCHEDULE IN EFFECT AT MESS HALL** beginning Monday, Jan. 9:: Week days-- breakfast, 6:30-9:30 a.m.; dinner, 12 noon -2:00 p.m.; suppers, 5:00-7:30 p.m. and 11:00 p.m.-1:30 a.m.

Sundays, same except for continuous dinner from 12 noon to 7:30 p.m.

From the looks of some of these modern dances it must take pretty strong limbs to support the big apple.



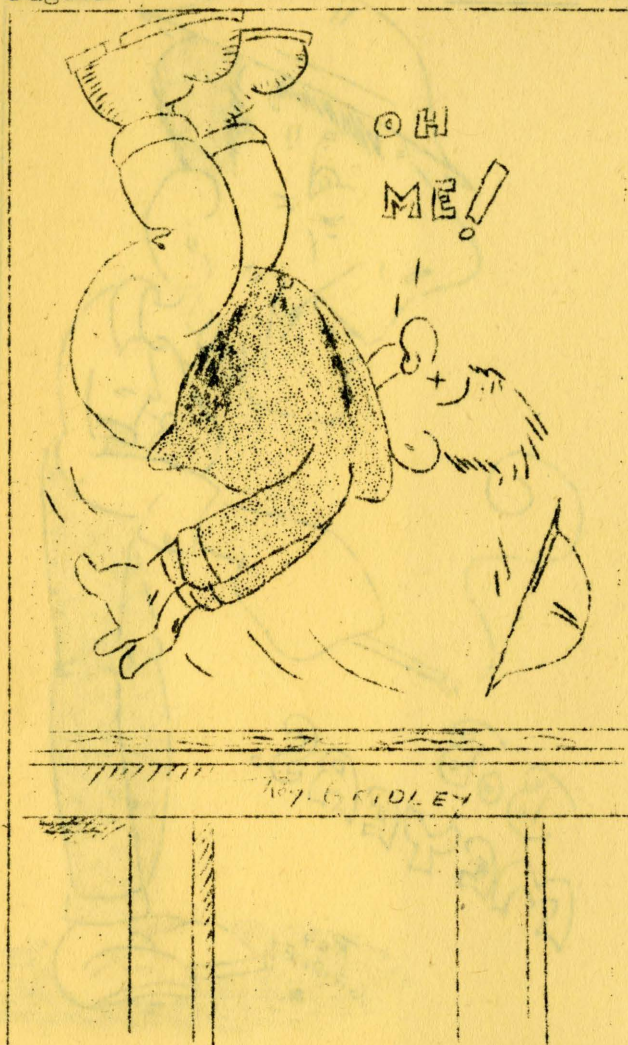
The Coulee Dam Pre-School PTA is scheduled to hold the regular monthly meeting in Mason City high school tonight (Thursday) with Mrs. Jack Heidt leader of the discussion on "Books for the Pre-School Age." Mrs. J.H. Burroughs is listed as hostess.

Block 83, near the east end of the dam, reaches 298 feet above lowest bed-rock in the dam. Block 83 is at elevation 1070.

The first of the 12 discharge tunnels for the pumping plant probably will be daylighting up above the highway near the cement line about the first of March. All may have daylighted by the middle of March. Tunnel drilling totals 2800 feet.

(We'll keep names out of this):  
Young wife (at post office window)--  
I wish to complain about the service.  
Postmaster--What is the trouble?  
Wife--My husband is in San Francisco on business and the card he sent me is postmarked Atlantic City.





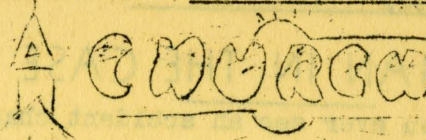
**FOUND**-out on concrete of the dam::  
ONE PAIR GOLD-RIMMED SPECTACLES IN CASE.  
Call at supply room, CBI main office.

Although use of the water test on penstock sections has been suspended by Western Pipe & Steel company until warmer weather, employees have turned to the fabrication of the first of the elbows for the 18 penstocks. These are hand-welded and are reduced in diameter from 18 feet at one end to 15 at the other, which leads into the power houses.

When the portals of the discharge tunnels for the pumping plant are trimmed an important job of grouting will get under way at the pumping plant scene. This will permit the erection of a concrete wall as a bulkwark against rising backwater.

"What are you wearing your glasses to bed for?"

"I want to get a better look at that gal I dream about every night."



**COMMUNITY CHURCH**--Rev. D.E. Peterson,  
Minister

9:45 a.m. Sunday School  
11:00 a.m. Morning worship  
7:30 p.m. Vespers

**CATHOLIC CHURCH**--Father A. Farrelly, pastor  
9:00 a.m. Mass, Mason City  
11:00 a.m. Mass, Grand Coulee

**CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS**--(Mason City gym)--R.E. Nuttall,  
Branch President  
10:30 a.m. Opening exercises  
11:15 a.m. Departmental works.

**ZION LUTHERAN CHURCH**\*Grand Coulee Heights  
--F. E. Muhly, Pastor  
Sunday, Jan. 15:-

10:00 a.m. Sunday School  
11:00 a.m. Divine services  
Sunday, Jan. 22:-

10:00 a.m. Sunday School  
7:30 p.m. Divine services

Zion Lutheran church conducts regular Sunday services. A hearty welcome is extended to all worshipers. Those desiring to contact Pastor Muhly may inquire at the Grand Coulee Land and Water office, or address all mail to 838 Grand Coulee.

**ELECTRIC CITY UNION CHURCH**--Rev. C. Carlson,  
Pastor

10:00 a.m. Sunday School; Mrs. William Teeters, superintendent  
11:00 a.m. Morning worship  
6:00 p.m. Christian endeavor

**GRAND COULEE COMMUNITY CHURCH**--E.C. Wood,  
Pastor

9:45 a.m. Church School  
11:00 a.m. Morning worship  
6:30 p.m. United Youth group  
6:30 p.m. Intermediate group  
7:30 p.m. Evening service

**SEVENTH DAY ADVENTIST** (in Full Gospel mission, Grand Coulee, Saturday)

9:45 a.m. Sabbath school  
11:00 a.m. Bible study

**OSBORNE GOSPEL TABERNACLE**

10:00 a.m. Sunday sSchool  
11:00 a.m. Morning services  
7:45 p.m. Evening services



## RED DEVILS BREAK EVEN WITH WALLA WALLA

NOTE

NOTE

NOTE

YOU ARE INVITED TO ATTEND CLASSES IN FIRST AID INSTRUCTION HELD MONDAY AND WEDNESDAY AT 7 P.M. IN THE NORTH WING OF THE MESS HALL. BE PREPARED TO SAVE A LIFE IF NECESSARY OR TO PREVENT SERIOUS INJURIES FROM VERY MINOR WOUNDS.

## Summary, Wednesday game--

## COULEE DAM (39)

	fg.	ft.	pf.	tp.
Boggess, f	4	0	2	8
Swindall, f	3	1	1	7
Millikan, f	2	0	1	4
Antoncich, c	4	0	0	8
Prahl, g	1	1	2	3
Grahek, g	2	0	0	4
Dickson, g	1	1	4	3
Frederickson	1	0	1	2

18 3 11 39

## WALLA WALLS (41)

Fouts, f	3	1	2	7
Webber, f	5	1	2	11
Gates, c	3	1	0	7
Carlson, g	2	8	2	12
Berry, g	2	0	0	4

15 11 6 41

When mass concreting ended until spring, yardage figures for the CBI contract had reached 900,872 for the dam proper.--Top elevation for the dam thus far, 1090.

YES, PRIZE YOUR HEALTH, FOR IT IS INDEED YOUR MOST WORTHWHILE POSSESSION.

"I'd like to have you meet my wife. She's an eye-ful!"

"Beautiful, eh?"

"No, fat."

(Briefs--Alt Heidelberg of Tacoma vs. Coulee Dam Red Devils Friday, Jan. 20 on local floor, and Almira high school vs. Mason City high, Jan. 24. Recent scores: Coulee Dam 45, Yakima 35; Coulee Dam 44, Alt Heidelberg of Tacoma 46; Coulee Dam 40, Walla Walla 29; Coulee Dam 39, Walla Walla 41; Mason City high 26, Wilbur 32. -- Community league basketball begins next week)

In a game that started out with slow sprinkles of baskets throughout the first half last night, a deluge fell in the second half as Coulee Dam tried to overcome a 10-point lead and fell two points short. The fourth quarter recaptured much of the spirit of the thrilling last minute of the Heidelberg game. The Red Devils had taken the visitors in a quiet game the night before.

The Walla Wallans led at the half 18 to 13 after ties at counts of 1, 3, 5, 7 and 9 but Coulee Dam swept into a 19 to 18 lead at the opening of the third quarter when Swindall and Antoncich looped the basket. After a tie count of 21-all, Walla Walla raced to a 32-22 lead at the end of the quarter.

NOTES:-- Swindall may have a broken thumb--Walla Walla turned in a surer and more organized game than on Tuesday. Their sickness list had claimed Reser, former Whitman college star and team spark plug, as the dam site has seen in previous years--Fouts, WW forward, was a varsity forward for the University of Oregon; also former MWAK employee--Corky Carlson, star of the WSC championship team of 1936, missed only the first of nine attempts at foul conversions for the visitors last night.

IMPORTANT NOTICE--Alt Heidelberg is scheduled to play a second game here one week from Friday, Jan. 20. From its sick list Heidelberg may be able to draft Lyle Kellstrom, former WSC varsity center. The big Tacoma team features Hal Lee (wearing jersey #9) who shows only traces now of what brought him all-American honors while with the University of Washington squad in the early 1930s.

A SAFE MAN CAN BE CREDITED WITH HAVING DONE SOME THINKING. THIS CANNOT ALWAYS BE SAID OF AN UNSAFE MAN.

REMEMBER--One week from tonight, Thursday, Jan. 19, a Community basketball league will get under way in Mason City gymnasium with the following teams: Elmer's Grocery, Mythical Six, Grand Coulee Midgets, Grand Coulee Seconds, Transportation Department, USBR Administrators and Frye's Mixers. TONIGHT WILL BE GIVEN OVER TO VOLLEY BALL.

Among prominent basketball stars of the northwest who have appeared here with visiting teams are Eustace, with Yakima and Wenatchee and formerly with Cheney Normal; Dahlquist and Berg (both with Yakima) and Sewell (Heidelberg), all of the 1936 WSC varsity. Dahlquist ran wild for Yakima, as the two opposing teams turned in the best played game of the year.--Coulee Dam heads for Wenatchee Tuesday.



YOUR NEXT  
"CLOSE SHAVE"



MAY

BE

PERMANENT.



## MASS CONCRETING PAUSES

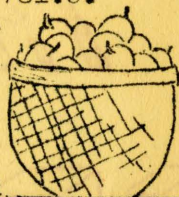
Concreting ended Tuesday on swing shift until the assurance that winter is over. The last bucket for mass concrete was lowered for the B row of block 50. The B and F row blocks were the last two in 50 to stop at elevation 980.

Mild weather succeeding Christmas permitted all planned elevations to be reached, leaving six blocks in the spillway section at elevation 965, five at 980 and two at 995--all in readiness for spring diversion plans.

## CONCRETE COOLING SHAFTS

And yet concreting has not exactly ended either; for on Jan. 6 concrete buckets were lowered down the block 31 elevator shaft and wheelbarrows rolled along the lowest longitudinal gallery to block 53-C. Here concrete was emptied into a 42-inch diameter cooling pipe shaft, bottom elevation 781.5.

This began the job of concreting cooling pipe shafts for the lower half of the present dam, which has its cooling program completed. Six shafts had been concreted by Tuesday to a 50-foot elevation.



Shafts are 50 feet apart up and downstream and lead in 50-foot elevations to galleries overhead. They contain headers for cooling pipe.

This concreting takes only about 10 yards daily.

## --AND FURTHER CONCRETING GOES ON

Two blocks back into the east abutment wheelbarrows roll along a runway. These carry concrete for the lining of walls, floors and ceilings of the grout-inspection-drainage tunnel. Concreting proceeds from the back toward the portal of the tunnel, first in 20-foot lengths for the floor, followed by the walls and ceilings.

The tunnel, at elevation 1100, will extend into a gallery through the dam, the combined length of which will be approximately 4500 feet.

Following concreting, high pressure grout holes will be drilled at 10-foot intervals in the tunnel and grouted with up to 500 pounds pressure.

NECESSITY--Something you can do without in order to make a down payment on a luxury.

## READY FOR "C" GROUTING

Another step in construction plans is ready to get under way now that sufficient concreting of block 82 permits it. This is the drilling and grouting of C (medium pressure) holes for the concrete area of blocks 82-88. A minimum of 25 feet of concrete must be over the highest point of bedrock in a given area before holes can be drilled and grouted. The concrete thus would provide a protective weight.

Holes are drilled through pipes which rise in concrete and in rows 20 feet apart. The depth of drilling is about 75 feet. The cement and water that make the grout is to seal off all minute crevices that might be in bedrock.

An estimated 12,000 feet of C holes will be drilled and grouted during the contract.

Exactly what will be done to stop further movement of the slope in the vicinity of the west vista house is not known yet by the Bureau of Reclamation. Use of drills may be sufficient to drain the earth of its water content, supplemented by pumps.

A 6-inch churn drill is down 1600 feet and a diamond drill is visible on the point above the highway and railroad track. This is down about 200 feet.

Shelving off of the slope at the bend of the highway necessitated excavation of 2,000,000 yards of earth and the drilling of 1700 feet of drain shaft and tunnel underneath the highway. This, however, produced results.

The east crane recess is beginning to take shape. Most remaining excavation is at the north side. Other excavation largely requires cutting to grade and trimming.

The east recess requires a cut only about one-third the height of the west, because the east keyway is not so steep. The east recess will house the 175-ton gantry crane that will traverse the completed dam and spend part of its time in the west recess.

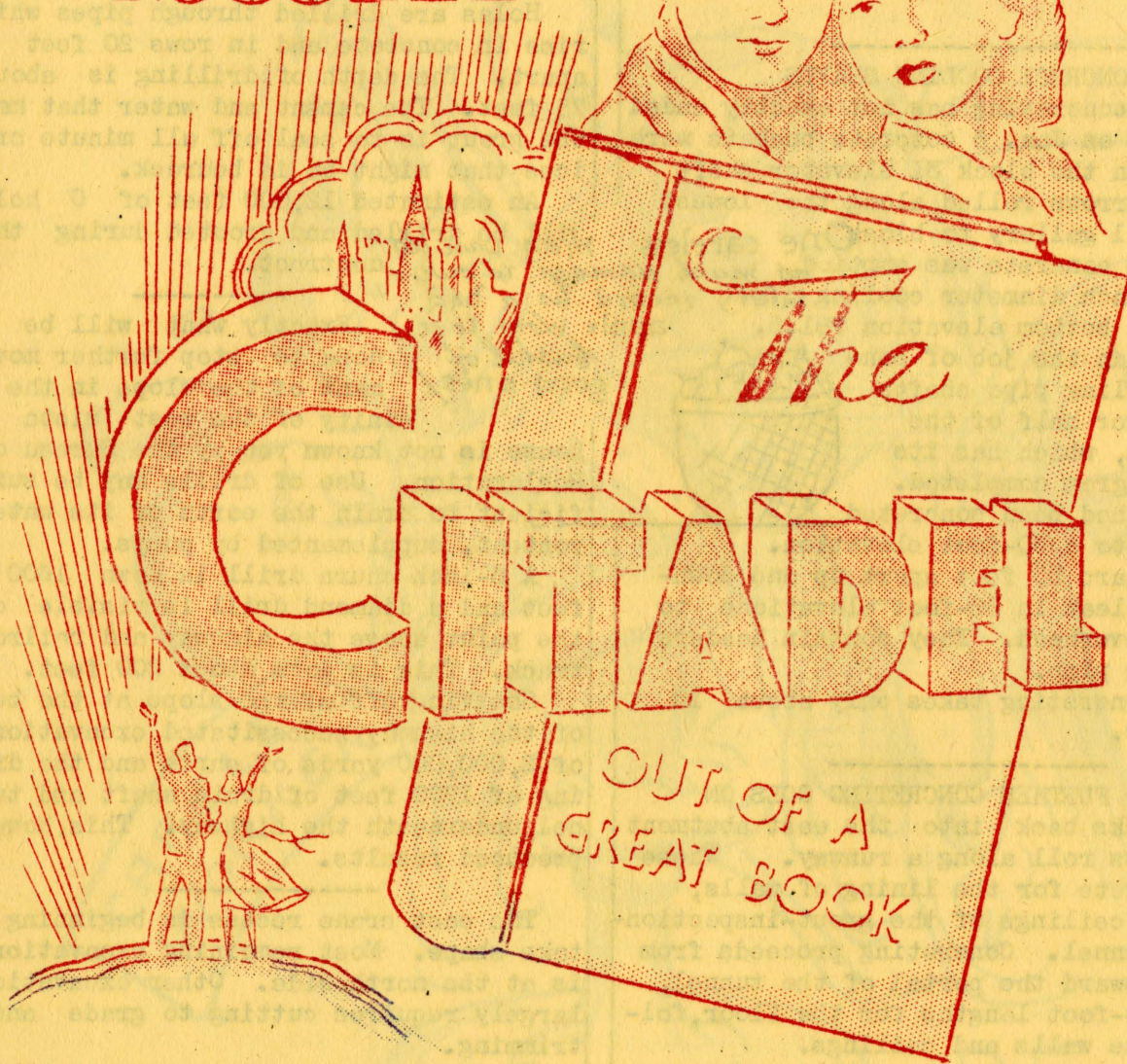
When you THINK it's safe, look again and MAKE SURE.

Yours for a long life.



DONAT  
RUSSELL

SUN  
MON  
TUE



MASON CITY THEATRE